

WSEC Minority Report WSEC / IECC Comparison

15-1a BUILDING AREA METHOD UNIT LIGHTING POWER ALLOWANCE (LPA)

Area	WSEC 2006 (1,2)	WSEC 2009 JH (1,2) **	WSEC 2009 proposed (1,2) ***	IECC
Automotive	0.9	0.79	0.77	0.9
Convention center	1.2	1.16	0.99	1.2
Courthouse	1.2	1.08	0.95	1.2
Cafeteria/fast food/restaurant/bar	1.3 (5)	1.19 (5)	1.03 (5)	1.4
Dining: Bar, lounge/leisure	n/a	n/a	n/a	1.3
Dining: cafeteria/fast food	n/a	n/a	n/a	1.4
Dining: Family	n/a	n/a	n/a	1.6
Dormitory	1	0.96	0.63	1
Dwelling Units	n/a	1	1	n/a
Exercise center	1	0.92	0.89	1
Gymnasias, assembly spaces	1 (9)	1	0.86	1.1
Health care clinic	1	0.89	0.84	1
Hospital, nursing homes, Group I-1 and I-2	1.2	1.08	1.09	1.2
Hotel/motel	1	1	1	1
Hotel banquet/conference/exhibit hall	2 (3,4)	deleted	deleted	n/a
Laboratory spaces	1.8	1.62	1.62	n/a
Laundries	1.2	1.2	1.2	n/a
Library	1.3 (5)	1.13 (5)	1.1 (5)	1.3
Manufacturing facility	1.3	1.24	0.97	1.3
Museum	1.1	1.04	0.87	1.1
Office buildings/Admin areas	1 (5,7,11)	0.91	0.86	1
Parking garage	0.2	0.15	0.2	0.3
Penitentiary	1	0.9	0.86	1
Police and fire stations	1 (8)	0.89	0.84	1
Post Office	1.1	0.98	1.02	1.1
Religious building	n/a	n/a	n/a	1.3
Retail/mall concourse/wholesale stores	1.5	1.32 (10)*	1.33 (10)	1.5
Schools/day care/university	1.2	1.01	0.97	1.2
Sports arena	n/a	n/a	n/a	1.1
Theater/motion picture	1.2	1.18	0.84	1.2
Theater/performing arts	1.6	1.46	1.25	1.6
Town Hall	n/a	n/a	n/a	1.1
Transportation	1	0.85	0.8	1
Warehouses, storage areas	0.5	0.65	0.66	0.8
Workshop	1.4 (11)	1.2	1.2	1.4
Plans Submitted for Common Areas Only				
Main floor building lobbies (except mall concourses)	1.2 (3)	1.2 (3)	1.09 (3)	n/a
All building common areas (corridors, restrooms, elevator lobbies,	0.8	0.7	0.7	n/a

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Footnotes:

- 1 Where general use and specific use are listed, the specific shall apply. Where use is not mentioned, LPA will be determined by building official.
 - 2 W/SF may be increased by 2% per foot of clg ht above 20', unless directed by subsequent footnote.
 - 3 W/SF may be increased by 2% per foot of clg ht above 12'.
 - 4 Deleted
 - 5 W/SF may be increased by 2% per foot of clg ht above 9'.
 - 6 Reserved
 - 7 Deleted
 - 8 Reserved
 - 9 Deleted
 - 10 Display window illumination within 2' of window, provided that display is separated from retail space by walls or 3/4 ht partitions (transparent or opaque) & lighting for free-standing display where lighting moves with display, are exempt. Otherwise, an additional allowance for merchandise display luminaires installed in retail sales area that are specifically designed and directed towards merchandise. The following wattages apply:
 - 1. 0.6 w/sf of sales floor area not listed in 2 or 3 below
 - 2. 1.4w/sf for furniture, clothing, cosmetics and artwork floor area.
 - 3. Allows 2.5 w/sf for jewelry, crystal or china floor area.Specified areas above must be identified on building plans. Calculate LPA by multiplying LPD's by the sales floor area for each department, excluding major circulation paths. The total LPA is the sum of allowances in categories 1, 2 & 3 plus an additional 1,000 watts for each tenant area over 250sf. The additional wattage is allowed only if merchandise display luminaires comply with all of the following:
 - a. located on ceiling track or recessed into the ceiling (not wall)
 - b. adjustable in both vertical and horizontal axis (vertical only okay for fluorescent or fixtures with two points of track attachment)The additional LPA is allowed only if the specified lighting is installed and automatically controlled, separately from general lighting, to be turned off during nonbusiness hours. The additional power shall be used exclusively for the specified luminaires and not any other purpose.
 - * JH version is similar except allows 1.4 w/sf for all display types. It also excludes items a and b.
 - 11 Deleted
- ** Provides for approximate 10% reduction in all LPA's. Adds "Dwelling" category.
- *** Reduces LPD by modifying ASHRAE 90.1 models to use the most efficient lighting technology available today. Also adds Space x Space method for calculating LPD that helps to tailor to non-standard building types and to allow for lower LPD values. The retail flagnote 10 is modified to match IECC 2009.